Title	APS Water Systems Spares and Maintenance			
Project Requestor	Swetin			
Date	03/03/2008			
Group Leader(s)	Goeppner			
Machine or Sector Manager	Quintana			
Category	Obsolescence/Spares			
Content ID*	APS_1253319	Rev.	1	

*This row is filled in automatically on check in to ICMS. See Note [1]

Description:

Start Year (FY)	**2008**	**Duration (Yr)**	**1**

Objectives:

Maintain and improve machine reliability by insuring that existing equipment is properly serviced, fully functional and replaced if necessary in timely manner prior to failure.

Benefit:

Maintain machine reliability.

Risks of Project: See Note [2]

Consequences of Not Doing Project: See Note [3]

Increased stored beam interruption and down time due to increased failure rate of aging components that require service at higher frequency.

Cost/Benefit Analysis: See Note [4]

Failure to complete maintenance will result in increased emergency repairs. Lack of in-stock spares will increase beam down time and increase costs due to potential requirement for expedited deliveries of spare parts.

Description:

1. Filters-$30K
2. Pump parts- $20K
3. Piping, hoses, valves, fittings – $60K
4. Pump motors - $20K
5. Johnson Controls - $20K
6. Flow meters, transmitters, sensors - $20K
7. Gravity feed system chiller & system parts - $20K
8. Water quality analyzers - $20K
9. Valve actuators & positioners - $20K
10. Linac skid spares - $30K
11. Degasivier vacuum system spares - $20K

Funding Details

Cost: ($K)
280.00

Year	AIP	Contingency
1	280	
2	150	
3	165	
4	180	
5	200	
6		
7		
8		
9		
Total	975	

Contingency may be in dollars or percent. Enter figure for total project contingency.

Effort: (FTE)
The effort portion need not be filled out in detail by March 28

Year	Mechanical Engineer	Electrical Engineer	Physicist	Software Engineer	Tech	Designer	Post Doc	Total
1								0
2								0
3								0
4								0
5								0
6								0
7								0
8								0
9								0

Notes:

[1] **ICMS**. Check in first revision to ICMS as a *New Check In*. Subsequent revisions should be checked in as revisions to that document i.e. C*heck Out* the previous version and C*heck In* the new version. Be sure to complete the *Document Date* field on the check in screen.

[2] **Risk Assessment.** Advise of the potential impact to the facility or operations that may result as a consequence of performing the proposed activity. Example: If the proposed project is undertaken then other systems impacted by the work
include ... (If no assessment is appropriate then enter NA.)

[3] **Consequence Assessment.** Advise of the potential consequences to the facility or to operations if the proposal is not executed. Example: If the proposed project is not undertaken then ____ may happen to the facility. (If no assessment is appropriate then enter NA.)

[4] **Cost Benefit Analysis.** Describe cost efficiencies or value of the risk mitigated by the expenditure. Example: Failure to complete this maintenance project will result in increased total costs to the APS for emergency repairs and this investment of ___ will also result in improved reliability of ____. (If no assessment is appropriate then enter NA.)